**Annex A**

**Field Visit**

**Plat (1)**

**El Minya**

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| **Geographic Location:** N28 35 13.4, E30 36 44.2  **Farm Name:** Dr. Shokry Farm  **Area served:** 30 feddan  **Water source:** Groundwater well  **Well depth:** 124 m  **Water level:** 23 m  **Irrigation system:** drip  **Agriculture Type:** Olive and Pomegranate  **Water reservoir:** Tank, 400 m3  **Solar Pump System**  1x LORENTZ PS9k2 Flow Rate: 350 m3/day  **Solar Generator**  **Supplier:** TrinaSolar 36x 295 Wp, Polycrystalline 10.62 kWp  **Installation:** June 2013  **Installed by:** Acropol |
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**Plat (2)**

**El Minya**

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| **Geographic Location:** N28 34 46, E30 37 45.7  **Farm Name:** Mostafa Farm  **Area served:** 10 feddan  **Water source:** Groundwater well  **Well depth:** 150 m  **Water level:** 15 m  **Irrigation system:** drip  **Proposed Agriculture Type:** Tomato  **Water reservoir:** Tank, 2260 m3  **Solar Pump System**  1x LORENTZ PS4000 Flow Rate: 200 m3/day  **Solar Generator**  **Supplier:** Sunteck 38x 255 Wp, Polycrystalline 9.69 kWp  **Inventor:** LORENTZ  **Installation:** July 2016  **Installed by:** Acropol |
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**Plat (3)**

**El Minya**

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| **Geographic Location:** N28 32 48.5, E30 36 59.6  **Farm Name:** Dr. Shokry Farm  **Area served:** 30 feddan  **Water source:** Groundwater well  **Well depth:** 125 m  **Water level:** 24 m  **Irrigation system:** drip  **Agriculture Type:** no  **Water reservoir:** No **Hybrid:** Solar + Electricity  **Solar Pump System**  1x LORENTZ PS9k2 Flow Rate: 200 m3/day  **Solar Generator**  **Supplier:** TrinaSolar 40x 295 Wp, Polycrystalline 11.85 kWp  **Inventor:** ABB  **Installation:** April 2016  **Installed by:** Acropol |
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**Plat (4)**

**El Minya**

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| **Geographic Location:** N28 32 42.9, E30 37 20.2  **Farm Name:** Dr. Shokry Farm  **Area served:** 30 feddan  **Water source:** Groundwater well  **Well depth:** 120 m  **Water level:** 24 m  **Irrigation system:** drip  **Agriculture Type:** Olive and Ginko  **Water reservoir:** Tank, 1200 m3  **Solar Pump System**  1x LORENTZ PS9k2  **Solar Generator**  **Supplier:** TrinaSolar 40x 295 Wp, Polycrystalline 11.8 kWp  **Inventor:** LORENTZ  **Installed by:** Acropol |
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**Plat (5)**

**El Minya**

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| **Geographic Location:** N28 3 39.6 , E30 31 22.4  **Farm Name:** Dr. Ahmed Yousry Farm  **Area served:** 30 feddan  **Water source:** Groundwater well  **Well depth:** 130 m  **Water level:** 24 m  **Irrigation system:** drip  **Agriculture Type:** Palm and Olive  **Water reservoir:** Tank, 1300 m3  **Solar Pump System**  1x LORENTZ PS25k2  **Solar Generator**  **Supplier:** LORENTZ + Sunteck 120 x 250 Wp, Polycrystalline 30 kWp  **Inventor:** LORENTZ  **Installed by:** Acropol |
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**Plat (6)**

**El Minya**

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| **Geographic Location:** N27 52 56.7 , E30 33 06.4  **Farm Name:**  **Area served:** 30 feddan  **Water source:** Groundwater well  **Well depth:** 130 m  **Water level:** 8 m  **Irrigation system:** drip  **Agriculture Type:** Peach, Apricot and Grapes  **Water reservoir:** Tank, 3000 m3  **Hybrid:** Solar + Diesel  **Solar Pump System**  1x LORENTZ PS50k2  **Solar Generator**  **Supplier:** Sunteck 92 x 260 Wp, Polycrystalline 32.92 kWp  **Inventor:** ABB  **Installed by:** Acropol |
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**Plat (7)**

**Wadi El Natrun**

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| **Geographic Location:** N28 3 39.6 , E30 31 22.4  **Farm Name:** Dr. Ahmed Shokry Farm  **Area served:** 65 feddan  **Water source:** Groundwater well  **Well depth:** 100 m  **Water level:** 6 m  **Irrigation system:** drip  **Agriculture Type:** Orange  **Water reservoir:** no  **Solar Pump System**  1x Shakty15HP  **Solar Generator**  **Supplier:** GTS 57 x 250 Wp, Polycrystalline 14.25 kWp  **Inventor:** Powiran  **Installation:** June 2016  **Installed by:** GTS |
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**Plat (8)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 22.914' E28° 53.138'  **Farm Name:** Ein Shamek well Farm  **Area served:** 15 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 10 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Shakty 5.5HP  **Solar Generator**  **Supplier:** GTS 21 x 250 Wp, Polycrystalline 5.25 kWp  **Inventor:** Powiran  **Installation:** July 2016  **Installed by:** GTS |
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**Plat (9)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 23.179' E28° 53.032'  **Farm Name:** Hag Hassan Bahary well Farm  **Area served:** 2.5 feddan  **Water source:** Groundwater well  **Well depth:** 130 m  **Water level:** 8 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 225 m3  **Solar Pump System**  1x Shakty 3 HP  **Solar Generator**  **Supplier:** GTS 18 x 250 Wp, Thinfilm (167 x 76 cm) 4.5 kWp  **Inventor:** Powiran  **Installation:** June 2016  **Installed by:** GTS |
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**Plat (10)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 23.599' E28° 53.386'  **Farm Name:** Hag Hassan south well Farm  **Area served:** 18 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 20 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Shakty 7.5HP  **Solar Generator**  **Supplier:** GTS 21 x 250 Wp, Polycrystalline (255 cm2) 5.25 kWp  **Inventor:** Powiran  **Installation:** July 2016  **Installed by:** GTS |
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**Plat (11)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 22 ' 54.8'', E28° 53' 08.2''  **Farm Name:** Hag Hamour well Farm  **Area served:** 50 feddan  **Water source:** Groundwater well  **Well depth:** 250 m  **Water level:** 8 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Speroni 10 HP  **Solar Generator**  **Supplier:** GTS 66 x 250 Wp, Polycrystalline  16.5 kWp  **Inventor:** Powiran  **Installation:** July 2016  **Installed by:** GTS |
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**Plat (12)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 24.079' E28° 53.054'  **Farm Name:** Hag Hamour sprig Farm  **Area served:** 4 feddan  **Water source:** Groundwater well  **Well depth:** 150 m  **Water level:** 8 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 300 m3  **Solar Pump System**  1xKesheng PS2200 (2 HP)  **Solar Generator**  **Supplier:** GTS 10 x 250 Wp, Polycrystalline  2.5 kWp  **Inventor:** Powiran  **Installation:** March 2016  **Installed by:** GTS |
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**Plat (13)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 24.100' E28° 53.697'  **Farm Name:** Mahdi well Farm  **Area served:** 10 feddan  **Water source:** Groundwater well  **Well depth:** 140 m  **Water level:** 10 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 250 m3  **Solar Pump System**  1x Shakti 5.5 HP  **Solar Generator**  **Supplier:** Sunteck 21 x 250 Wp, Polycrystalline  5.355 kWp  **Inventor:** Invt  **Installation:** January 2015  **Installed by:** GTS |
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**Plat (14)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 23.904' E28° 53.618'  **Farm Name:** Khalawy son’s Farm  **Area served:** 15 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 10 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Shakti 10 HP  **Solar Generator**  **Supplier:** Suntech 40 x 250 Wp, Polycrystalline  10.2 kWp  **Inventor:** Invt  **Installation:** January 2015  **Installed by:** GTS |
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**Plat (15)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 23.904' E28° 53.618'  **Farm Name:** Khalawy son’s Farm  **Area served:** 15 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 10 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Shakti 10 HP  **Solar Generator**  **Supplier:** Suntech 40 x 250 Wp, Polycrystalline  10.2 kWp  **Inventor:** Powiran  **Installation:** June 2015  **Installed by:** GTS |
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**Plat (16)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 25.927' E28° 52.193'  **Farm Name:** Hag Alam Farm  **Area served:** 5 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 8 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf  **Water reservoir:** 400 m3  **Solar Pump System**  1x Shakti 3 HP  **Solar Generator**  **Supplier:** Suntech 30 x 250 Wp, Polycrystalline 7.5 kWp  **Inventor:** ABB  **Installation:** July 2015  **Installed by:** GTS |
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**Plat (17)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 25.927' E28° 52.193'  **Farm Name:** Hag Hmour spring Farm  **Area served:** 5 feddan  **Water source:** Groundwater well  **Well depth:** 45 m  **Water level:** 12 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf and Maize  **Water reservoir**: 350 m3  **Solar Pump System**  1x Speroni 2 HP  **Solar Generator**  **Supplier:** ReneSola 15 x 250 Wp, Polycrystalline  3.75 kWp  **Inventor:** Powiran  **Installation:** July 2015  **Installed by:** GTS |
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**Plat (18)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 24.659' E28° 53.059'  **Farm Name:** Hawil Well Farm  **Area served:** 20 feddan  **Water source:** Groundwater well  **Well depth:** 200 m  **Water level:** 1 m  **Irrigation system:** drip  **Agriculture Type:** Palm and Alfaalaf  **Water reservoir**: 400 m3  **Solar Pump System**  1x Shakti10 HP  **Solar Generator**  **Supplier:** GTS 42 x 250 Wp, Polycrystalline  10.5 kWp  **Inventor:** Invet  **Installation:** June 2015  **Installed by:** GTS |
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**Plat (19)**

**Bawiti- Bahariya Oasis**

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| **Geographic Location:** N28° 23.231' E28° 53.528'  **Farm Name:** American Well Farm  **Area served:** 15 feddan  **Water source:** Groundwater well  **Well depth:** 100 m  **Water level:** 1 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf and Sunflower  **Water reservoir**: no  **Solar Pump System**  1x Shakti 7.5 HP  **Solar Generator**  **Supplier:** GTS 30 x 250 Wp, Polycrystalline 7.5 kWp  **Inventor:** Invet  **Installation:** June 2015  **Installed by:** GTS |
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**Plat (20)**

**Haize - Bahariya Oasis**

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| **Geographic Location:** N27° 48' 64.6'' E28° 33'02.8 ''  **Farm Name:** Reda Abo Ragh Farm  **Area served:** 50 feddan  **Water source:** Groundwater well  **Well depth:** 150 m  **Water level:** 17 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf and Sunflower  **Water reservoir**: 400 m3  **Solar Pump System**  1x LORENTZ PS15K  **Solar Generator**  **Supplier: Sunteck** 80 x 250 Wp, Polycrystalline  20 kWp  **Inventor:** LORENTZ  **Installation:** February 2015  **Installed by:** Acropol |
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**Plat (21)**

**Haize - Bahariya Oasis**

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| **Geographic Location:** N27° 50.069' E28° 33.969'  **Farm Name:** Arab manufacturing Company  **Area served:** 20 feddan  **Water source:** Groundwater well  **Well depth:** 150 m  **Water level:** 17 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf, Orange and Olive  **Water reservoir**: no  **Solar Pump System**  1x N.D. PS25K  **Solar Generator**  **Supplier:** Fortune CP 116 x 230 Wp, Polycrystalline (156 x 156) 36.68 kWp  **Inventor:** ABB  **Installation:** June 2012  **Installed by:** Sunile |
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**Plat (22)**

**Haize - Bahariya Oasis**

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| **Geographic Location:**  **Farm Name:** Hag Nour  **Area served:** 50 feddan  **Water source:** Groundwater well  **Well depth:** 150 m  **Water level:** 13 m  **Irrigation system:** drip  **Agriculture Type:** Palm, Alfaalaf, Pear, pomegranate Water melon, Graps and Olive  **Water reservoir**: no  **Solar Pump System**  1x Shakti PS25K  **Solar Generator**  **Supplier:** Suntech  57 x 250 Wp, Monocrystalline  14.25 kWp  **Inventor:** ABB  **Installation:** June 2015  **Installed by:** Sunile |
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**Plat (23)**

**Haize - Bahariya Oasis**

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| **Geographic Locatio**n: N27° 52' 43'' E28° 35' 57''  **Farm Name:** Hag Mohamed Abed El Rasid  **Area served:** 150 feddan  **Water source:** Groundwater well  **Well depth:** 155 m  **Water level:** 15 m (winter) and 25 m (summer)  **Irrigation system:** drip  **Agriculture Type:** Orange and Maize  **Water reservoir**: no  **Solar Pump System**  1x Shakti 40 HP    **Solar Generator**  **Supplier:** Suntech 104 x 250 Wp, Monocrystalline 26 kWp  **Inventor:** ABB  **Installation:** June 2014  **Installed by:** Sunile |
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**Plat (24)**

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| **Geographic Location:** 31°09'03"N 30°04'48"E  **Farm Name:** El Afeer station  **Area served:** 81 farmers and irrigates 243 Feddan  **Water source:** waterway  **Water level:** 4 m  **Irrigation system:** surface water  **Agriculture Type:** vegetables, maize, clover, cotton, rice, wheat  **Solar Pump System**  1x Grundfos Nb100-2003 hp  **Solar Generator**  **Supplier:** EMMVEE  **Installation:** June 2015  **Installed by:** Program IIIMP (World Bank) |
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**Plat (25)**

**Ismailia**

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| **Geographic Location:** N30° 14.612' E32° 35.599'  **Farm Name:** Hag. Mohamed El Garabawy  DSCN3231**Area served:** 35 feddan  **Water source:** service water  **Water level:** 3 m  **Irrigation system:** drip  **Agriculture Type:** Mango  **Water reservoir:** 1600 m3  **Solar Pump System**  1st trial: ALLWEILER-FARID NT  2nd trial: Farrouk and Awad 4/4 8 HP  3rd trial: Bharat 4/4 10 hp  DSCN3213DSCN3204  **Solar Generator**  **Supplier:** CSG & PTP 52x 300 Wp, Polycrystalline 7.8 kWp  **Inventor:** POWTRAN  **Installation:** April 2015  **Installed by:** GTS  **Initial cost:** 100,000 L.E |
| DSCN3200DSCN3187DSCN3170 |
| DSCN3154DSCN3189DSCN3224 |